WHAT IS CLAIMED IS:

1	1. A method for fault tolerance, load balance and failover of CORBA object servers,
2	comprising the steps of:
3	invoking a cluster contained in a context;
4	performing a load balance to select an object server located in the
5	invoked cluster;
6	appending a cluster component to the invoked cluster to provide failover
7	upon failure of the object server;
8	forwarding a selected object reference to a client upon completion of the
9	load balance; and
10	communicating with a server associated with the selected object
11	reference which was forwarded to the client.
1	2. The method of claim 1, said invoking step comprising the step of:
2	binding to the server using an IP Address and port number
3	contained in the specific object reference.
1	3. The method of claim 2, further comprising the steps of:
2	indicating to a user whether bind interceptors are in use;

3	providing the user with a class having relevant methods if bind
4	interceptors are in use; and
5	specifying the class such that the class contains the most relevant
6	methods, said specification being performed at a discretion of the user.
1	4. The method of claim 3, further comprising the steps of:
2	checking the bind interceptors if the object server fails; and
3	selecting an alternative server if a bind interceptor contains a
4	predetermined method; said selection being performed by the user upon entry
5	of the predetermined method by the user.
1	5. The method of claim 4, further comprising the steps of:
2	intercepting a cluster component of the object server which failed based
3	on the bind interceptor;
4	invoking a load balance algorithm of the cluster via the bind interceptor
5	to select and return a new object reference located in the cluster to the client;
6	establishing communications with the client and a server of the new
7	object reference; and
8	marking the failed object server to indicated failure thereof.

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predetermined method.

6. The method of claim 5, further comprising the step of: 1 2 removing the marked failed object server from the cluster. 7. The method of claim 4, wherein the predetermined method is Bind Failed. 1 1 The method of claim 3, wherein the most relevant methods are one of Bind, 2 Bind Succeeded and Bind Failed. 9. The method of claim 1, further comprising the step of: 1 specifying a load balance algorithm upon creation of a naming service 2 cluster to perform name service load balancing of object references contained 3 4 within the clusters. 10. The method of claim 1, wherein said load balancing is performed based on a 1 2 predetermined method. 11. The method of claim 4, wherein the predetermined method is a Round robin load 1 2 balancing algorithm.

12. The method of claim 1, wherein said load balancing is performed based on a

1	13. The method of claim 12, wherein the predetermined method is a Round robin load
2	balancing algorithm.
1	14. The method of claim 1, wherein each cluster contains an object binding table which
2	contains object references;
3	wherein each object server reference represents a single server.
1	15. A method for fault tolerance, load balance and failover of CORBA object servers,
2	comprising the steps of:
3	setting a flag in a file to activate implicit clustering;
4	invoking a cluster contained in a context having clusters;
5	performing a load balance to select an object server located in the
6	clusters;
7	forwarding a selected object reference to a client upon completion of the
8	load balance; and
9	communicating with the server associated with the selected object
10	reference which was forwarded to the client.
11	16. The method of claim 15, wherein the file is a configuration file.

1	17. The method of claim 15, said invoking step comprising:
2	binding to the server using an IP Address and port number
3	contained in the specific object reference.
1	18. The method of claim 15, wherein said load balancing is performed based on a
2	predetermined method.
1	19. The method of claim 18, wherein the predetermined method is a Smart Round
2	Robin load balancing algorithm.
1	20. The method of claim 15, wherein object reference binding having identical names
2	are clustered together in common clusters such that a common group of object reference binders
3	servers is created.
1	21. The method of claim 20, further comprising the step of:
2	specifying a load balance algorithm to perform load balancing of object
3	references contained within the common group of group of object reference
4	binders.

- 1 22. The method of claim 21, wherein initially the load balance algorithm is Smart
- 2 Round Robin.